

ABSTRACT

The invention concerns an asynchronous wrapper for a globally asynchronous, locally synchronous circuit. The asynchronous wrapper operates with a request signal-driven clock control, supplemented by a local clock unit in the absence of request signals. It has at least one input unit which is adapted to receive a request signal from outside and to indicate to the outside the reception of the request signal by the delivery of an associated acknowledgement signal, and a pausable clock unit which is adapted to repeatedly produce a first clock signal and to deliver it to an internally synchronous circuit block associated with the asynchronous wrapper. The input unit is adapted to produce, if a request signal is applied, a second clock signal which is in a defined time relationship with the request signal and to deliver it to the internally synchronous circuit block. There is further provided a time-out unit which is connected to the input unit and which is adapted to start the delivery of the first clock signal when external request signals are absent over a given period of time.